



(19)

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(11)

EP 0 962 715 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
28.08.2002 Bulletin 2002/35

(51) Int Cl.7: F24D 19/10

(43) Date of publication A2:
08.12.1999 Bulletin 1999/49

(21) Application number: 99630044.8

(22) Date of filing: 07.05.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 03.06.1998 US 89978

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(54) Apparatus and method of operating a heat pump to improve heating supply air temperature

(57) An apparatus and method for a heat pump operating in the heating mode controls the condenser air flow rate and the condenser exiting air temperature depending in a first embodiment on the evaporator ambient temperature, and in a second embodiment, the evaporator air temperature and alternatively the condenser air flow rate or the condenser exiting air temperature, to alleviate a cold blow condition. The apparatus and method operate by sensing the evaporator ambient temperature with a sensor positioned proximate to the

evaporator, and when that temperature is below a threshold value indicating a cold blow situation, determining by circuit means a modified condenser air flow rate to achieve at the same time a slower air flow and a higher air temperature, so that the cold blow condition is terminated or at least alleviated. The apparatus and method alternatively command the blower to achieve a determined condenser air flow, or to achieve a determined blower speed depending upon motor type, that results in a targeted condenser air flow or a targeted condenser exiting air temperature.

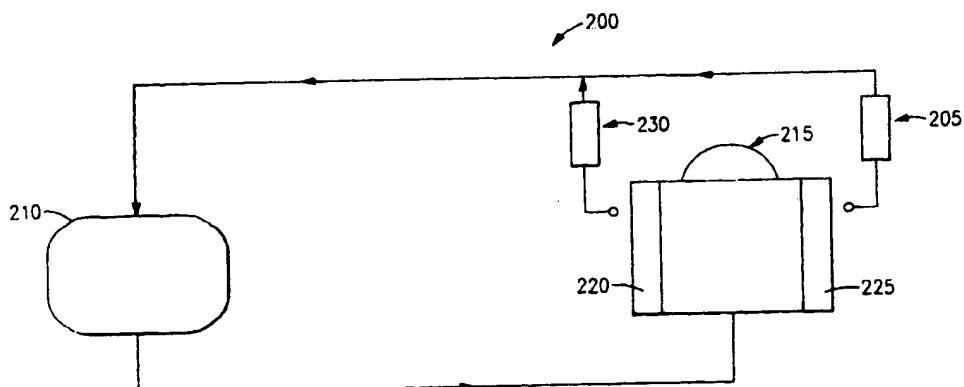


FIG.2

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EUROPEAN SEARCH REPORT

Application Number
EP 99 63 0044

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<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>MUNICH</td> <td>8 July 2002</td> <td>Leclaire, T</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	MUNICH	8 July 2002	Leclaire, T
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CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document							
<small>EPO FORM 1500/02 (P04001)</small>									

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ON EUROPEAN PATENT APPLICATION NO.**

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